



THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Applicants: Ping Zhu

Serial No.: 10 043,995

Art Unit: 1642

Filed: January 11, 2002

Examiner: Not Yet Assigned

For: PRODUCTION METHOD OF MICRO-REACTORS GENE CHIPS

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

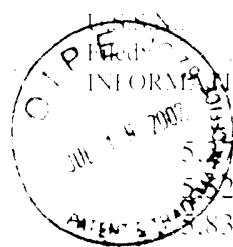
Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicant submits an Information Disclosure Statement, including three (3) pages of Form PTO-1449 and a copy of twenty-two (22) documents cited therein. We were unable to locate copies of those references indicated with an asterisk (*). We will forward copies of these shortly.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

U.S. Patents

Number	Issue Date	Patentee	Class Subclass
4,656,127	04-07-1987	Mundy	435 6
4,683,195	07-28-1987	Mullis et al.	435 6
5,002,867	03-26-1991	Maceviej	435 6
5,143,854	09-01-1992	Pirrung et al.	436 518
5,202,231	04-13-1993	Drmanac et al.	435 6



10,043,995

Filed January 11, 2002

INFORMATION DISCLOSURE STATEMENT

5,273,632	12-28-1993	Stockham et al.	204 180.1
5,277,681	06-18-1996	Holmes	435.6
5,837,832	11-17-1998	Chee et al.	536.22.1
6,132,724	10-17-2000	Blum	424 195.1

Foreign Documents

<u>Number</u>	<u>Publication Date</u>	<u>Patentee</u>	<u>Country</u>
WO 92 10588	06-25-1992	Affymax Technologies	PCT
WO 93 17126	09-02-1993	Public Health Research Institute of the City of New York, Inc.	PCT
1249437	04-05-2000	Univ. Beijing (CN)	CN
1252452	05-10-2000	Univ. Dongnan (CN)	CN

Publications

*CRONIN et al., Hybridization to Arrays of Oligonucleotides, Poster Presentation: Nucleic Acids In Medical Applications Conference sponsored by AACCC, published in conference syllabus, Cancun, Mexico, 1993.

EICKHOFF, et al., "Tissue gene expression analysis using arrayed normalized cDNA libraries," *Genome Res.* 10(8):1230-1240 (2000).

LI, et al., "Analysis of fused genes resulting from 29 chromosomal aberrations in leukemia," *Chin J Pediatr* 39(11):682-685 (2001).

*LIPSHUTZ, et al., Oligonucleotide Arrays for Hybridization Analysis, Genome Sequencing and Analysis Conference V, Hilton Head, SC 1993.

LIPSHUTZ, "Likelihood DNA sequencing by hybridization," *J Biomol Struct Dyn* 11(3):637-653 (1993).

*LOBBAN et al., DNA Chips for Genetic Analysis, Genome Sequencing and Analysis Conference V, Hilton Head, SC, 1993.

MARAM, et al., *Methods in Enzymology* (Grossman, et al., eds.) vol. 65, pp. 449-559, Academic Press, Inc., Orlando, (1980).

PASINEN, et al., "A system for specific, high-throughput genotyping by allele-specific primer extension on microarrays," *Genome Res.* 10(7):1031-1042 (2000).

SAMBROOK et al., "Synthetic Oligonucleotide Probes," *Molecular cloning: a laboratory manual*, pp. 1145-1147, Cold Spring Harbor Laboratory Press, New York, 1989.

SANGER et al., "DNA sequencing with chain-terminating inhibitors," *Proc. Natl. Acad. Sci. U.S.A.* 74(12):5463-5467 (1977).

SOUTHERN et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," *Genomics* 13(4):1008-1017 (1992).

WATSON, "New tools: A new breed of high-tech detectives," *Science* 289(5481):850-854 (2000).

Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicant invites the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicant is of the opinion that his claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,

Zhaoyang Li
Reg. No. 46,872

Dated: July 15, 2002


HOLLAND & KNIGHT LLP
One Atlantic Center
1201 West Peachtree Street, N.E.
Suite 2000
Atlanta, Georgia 30309-3400
404-817-8531
FAX 404-817-8588
www.hklaw.com

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INFORMATION DISCLOSURE STATEMENT

Certificate of Mailing under 37 C.F.R. § 1.8(a)

I hereby certify that this Information Disclosure Statement, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date shown below with sufficient postage as first-class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: July 15, 2002


Brent A. Winit

ATL 1 #527202 v1

Complete if Known

Use as many sheets as necessary.



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January 11, 2002

Ping Zhu

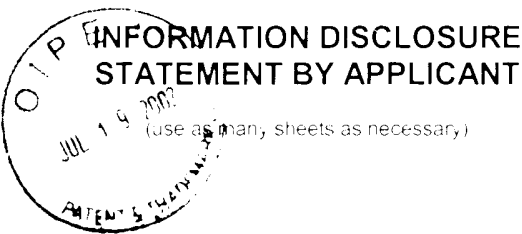
1642

PKU 100

Experiment Initials	Date	US Patent Document		Name of Inventor or Applicant of US Patent Document	Date of US Patent Document	Pages, Columns, Lines, Where Relevant Passages or References of US Patent Applied
		Number	Publication Date			
		4,656,127		Mundy	04-07-1987	
		4,683,195		Mullis et al	07-28-1987	
		5,002,867		Macevicz	03-26-1991	
		5,143,854		Pirrung et al	09-01-1992	
		5,202,231		Drmanac et al.	04-13-1993	
		5,273,632		Stockham et al	12-28-1993	
		5,527,681		Holmes	05-18-1996	
		5,837,832		Chee et al	11-17-1998	
		6,132,724		Blum	10-17-2000	

Examiner Contract	Date	Foreign Patent Document			Name of Patentee or Applicant (in Chinese)	Date of Publication (in Chinese)	Pages of the Patent Document (in Chinese)	Pages of the Patent Document (in English)	Remarks
		No.	Number	Publication Country					
	02	92 10588		Affymax Technologies	93-05-1992				
	03	93 17126		Public Health Research Institute of the City of NewYork, Inc.	09-02-1993				
	04	1249487		Univ. Beijing (CN)	14-05-2004				
	05	1252462		Univ. Dongran (CN)	05-10-2005				

Substitute for form 1445A PTO



Complete if Known

Application Number	10/043,995
Filing Date	January 11, 2002
First Named Inventor	Ping Zhu
Group Art Unit	1642
Examiner Name	
Attorney Docket Number	PKU 100

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OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Other Art - Non Patent Literature Documents
	CRON N et al. Hybridization to Arrays of Oligonucleotides, Poster Presentation, Nucleic Acids In Medical Applications Conference sponsored by AACC, published in conference syllabus, Cancun, Mexico, 1993
	EICKHOFF, et al. "Tissue gene expression analysis using arrayed normalized cDNA libraries," <i>Genome Res.</i> 10(8):1230-1240 (2000)
	LI, et al. "Analysis of fused genes resulting from 29 chromosomal aberrations in leukemia," <i>Chin J Pedia</i> 39(11):682-685 (2001)
	LIPSHUTZ et al., Oligonucleotide Arrays for Hybridization Analysis, Genome Sequencing and Analysis Conference V, Hilton Head, SC 1993.
	LIPSHUTZ, "Likelihood DNA sequencing by hybridization," <i>J Biomol Struct Dyn</i> 11(3):637-653 (1993).
	LOBBAN et al., DNA Chips for Genetic Analysis, Genome Sequencing and Analysis Conference V, Hilton Head, SC 1993
	MARAM, et al. <i>Methods in Enzymology</i> (Grossman, et al., eds.) vol. 65, pp. 449-559, Academic Press, Inc., Orlando (1980)
	PASTINEN, et al. "A system for specific, high-throughput genotyping by allele-specific primer extension on microarrays," <i>Genome Res.</i> 10(7):1031-1042 (2000).
	SAMBRONK et al. "Synthetic Oligonucleotide Probes," <i>Molecular cloning, a laboratory manual</i> , pp. 1145-1147, Cold Spring Harbor Laboratory Press, New York, 1989.
	SANGER et al. "DNA sequencing with hand-terminated c-nucleotides," <i>Proc Natl. Acad. Sci. USA</i> 74(12):5463-5467 (1977)

Complete if Known

(use as many sheets as necessary)

Sheet 3 of 3

10/043,995

January 11, 2002

Ping Zhu

1642	
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Attorney Docket Number

PKU 100

For example, the *Journal of Clinical Biochemistry* has a page that lists the
 full track listings for each volume, and also lists the pages of the separate
 parts of the volume. This is a very useful feature.

WATSON, "New tools: A new breed of high-tech detectives," *Science* 289(5481): 850-854 (2000).

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